Notice of Intent

to Comply with NPDES General Permit No. WAG-130000

for Federal Hatcheries and Hatcheries in Indian Country within the State of Washington

I. Owner and Operator Information

Owner Name: Department of the Interior, U.S. Fish and Wildlife Service	
Mailing Address: Fishery Resources 911 NE 11th Avenue Portland, OR 97232	**Contact person:** See Operator below **Title:** **Phone No:** **Fax No:** **E-Mail address:**

Operator Name: Quilcene National Fish Hatchery	
Mailing Address: 281 Fish Hatchery Road Quilcene, WA 98376	**Contact person:** Dan Magneson **Title:** Assistant Hatchery Manager **Phone No:** 360-765-3334 ext. 3 **Fax No:** 360-765-3398 **E-Mail address:** dan_magneson@fws.gov

II. Facility Information

Attach an Area Map showing the regional location of the facility **See Attachments A1 and A2**

Facility Name: Quilcene National Fish Hatchery		
Tribal or Federal organization: Federal, U.S. Fish and Wildlife Service		
Mailing Address: 281 Fish Hatchery Road Quilcene, WA 98376		
Location address: same as above Located 2 miles south of the town of Quilcene on U.S. Hwy. 101		**County (and reservation, if applicable):** Jefferson County **Date of first discharge:** 1911
OUTFALL	**Latitude** 47degrees, 48 minutes, 38 seconds North	**Longitude** 122 degrees, 54 minutes, 50 seconds West
Other & prior permit numbers, issuing authority, effective dates: NPDES permit WA 000187-2, EPA, 1974 NPDES Authorization No. WAG - 130022, EPA, August 16, 2010 - July 31, 2014		

III. Operations and Production Information

Is the production system best described as a *flow through*, a *recirculating, or a pond system?** Flow Through with Serial Reuse
Number and type (concrete raceways, earthen ponds, etc.) of rearing units: 39 concrete rcwys **Total area of rearing units:** 48,953 cubic feet (Not all of these 39 concrete raceways are used year-round)
Number and type of treatment units (full-flow settling basins, off-line settling basins, quiescent zones, etc.) 3 full flow settling basins, 1 off-line settling basin
Does the facility operate year-round? Yes **If not, what months does it operate?** N/A
**See definitions in Section X of the General Permit, if necessary.*

List the species grown or held at your facility and estimate the annual production of each in gross harvestable weight (if fish are released rather than harvested, production is the estimated weight at the time of release). The estimate can be a range over the next five years, if appropriate.

Facility Production

Species	Fish Produced (pounds)	Fish Released (pounds)	Where released	When released
Coho salmon	24,000	24,000	Big Quilcene River	late April/early May
Coho salmon	9,050	9,050	Quilcene Bay	March
Steelhead trout	60	60	Lilliwaup Hatchery	July - Sept.

IV. Source and Receiving Waters

Describe the facility's water source(s). Indicate units of cubic feet per second (cfs) or gallons per minute (gpm), where appropriate.

Source Water

	Source	Max. Flow	Min Flow	Avg Flow
Primary Source	Big Quilcene River	17953 g.p.m.	6732 g.p.m.	12,343 g.p.m.
Source Water Treatment:	Concrete Pre-Settling Basin			
Secondary Source	Penny Creek	4800 g.p.m.	0 g.p.m.	1500 g.p.m.
Source Water Treatment:	Earthen Settling Pond and Concrete Settling Chamber			
Tertiary Source	Well #1	320 g.p.m.	0 g.p.m.	72 g.p.m.
Source Water Treatment:	Groundwater Source - No Pre-Treatment			

Receiving Water				
Outfall	Receiving Water	Pollutants for which impaired	Wasteload Allocations	Tribal Reservation (if applicable)
001	See Attachment "B"	See Attachment "B"		N/A
002	See Attachment "B"	See Attachment "B"		N/A
003	See Attachment "B"	See Attachment "B"		N/A

Indicate if the receiving waters are listed as impaired, in accordance with Section 303 (d) of the CWA, by the State of Washington or by a Tribal entity.

Indicate what pollutants are impaired and any wasteload allocations that have been assigned to the facility.

Indicate if the discharge is to waters in Indian country located within one mile upstream of waters listed as impaired, in accordance with Section 303 (d) of the CWA, by the State of Washington.

V. Wastewater Characterization

Describe the facility process from which water is discharged through each outfall.

Wastewater Discharges	
Outfall	Description of source, frequency, duration & volume of discharge
001	See Attachments B, C, D, E and F (includes answers to questions below this table)
002	See Attachments B, C, D, E and F (includes answers to questions below this table)
003	See Attachments B, C, D, E and F (includes answers to questions below this table)

Attach a schematic drawing of your facility *that includes raceways, ponds, tanks; water treatment units, such as off-line settling basins; sources of water; direction of water flow, points of chemical and therapeutic drug addition; points of feed addition; and discharge outfalls.*

VI. Feed Use

Describe your facility's use of feed. This may be a range expected over the next 5 years.

Use of Feed			
Feed Type	Medications added	Maximum Monthly Feed Use (lbs)	Average Annual Feed Use (lbs)
Bio-Oregon dry	Very rarely used - see	4,620	30,319
	Attachment "G"		

VII. Aquaculture Drugs and Chemicals

Describe your facility's use of chemicals and therapeutic drugs, including cleaners and disinfectants, feed additives or other ingested drugs, immersion or injected treatments. Points of application should appear in the drawing required in §V, above.

Use of Drugs and Chemicals				
Drug or Chemical	Reason for Use	Method of Application	Maximum Daily Amount Used	Frequency of Use
See Attachment "G"				

VIII. Solid Waste Disposal

Describe annual quantities of solids (including fish mortalities) disposed and where disposed.

Solids Disposed			
Type of Solid Disposed	Quantity Disposed	When	Where
Adult Salmon Carcasses	2,000	Aug. - Nov.	On-Station Burial
Juvenile Mortalities	33,500	Jan. - Dec.	County Landfill
Fish Waste (Raceways and Tanks)	unknown	Year round	Off-Line Settling Basin (=EPA Pond)
Sediment, Debris (Penny Creek basins)	unknown	Every 2 Years	On-Station Upland Site

IX. Painted or Caulked Surfaces

Describe all painted and caulked surfaces that are in regular contact with process water that is discharged to waters of the U.S. Location of such surfaces should appear in the drawing required in §V, above.

Painted and Caulked Surfaces			
Type of Paint of Caulk	**Where applied (including area)**	**How much applied**	**When applied**
Chem-Caulk 900	All Raceways	91 pounds	2008 & 2009
Rust-Oleum Paint	"D" Bank Raceway Metal	1 gallon	2011
Rust-Oleum Paint	"B" Bank Raceway Metal	2 gallons	2013

X. Signature and Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly evaluate and gather the information submitted. Based on my inquiry of the person or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature Ron Wong		**Date** 12/30/13
Printed Name Ron Wong	**Title** Hatchery Manager	

IX. Submittal Information

Send the completed, signed information, along with required attachments to at the following address.

U. S. EPA Region 10, OWW-130
Washington Hatchery NOI
1200 Sixth Avenue, Suite 900,
Seattle, Washington 98101-3140

NOI information calculated and completed by Assistant Hatchery Manager on December 16, 2013

Daniel M. Magneson

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Signature	**Date**
	December 16, 2013
Printed Name Daniel M. Magneson	**Title** Assistant Hatchery Manager

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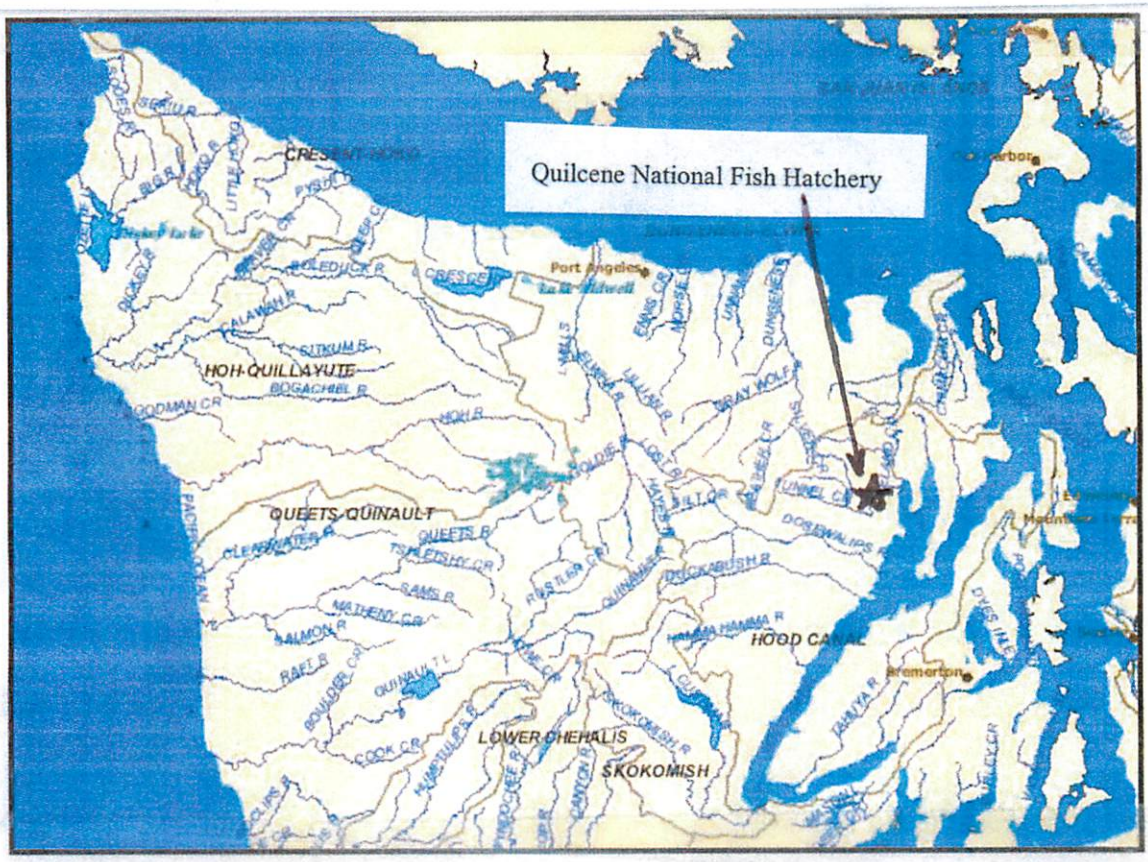
Dan Magneson is not the correct signatory. See 12/30/13 signature from Ron Wong.
– Catherine Corkel

Quilcene NFH in Washington

Attachment A1

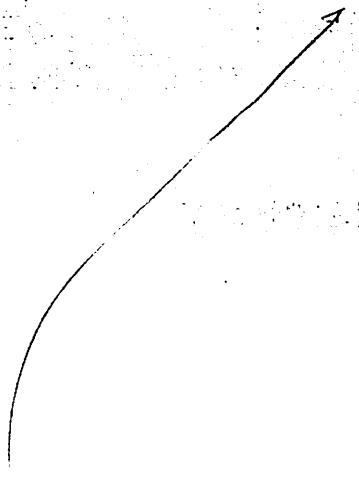
U.S. Fish & Wildlife Service - Pacific Region

Olympic Peninsula



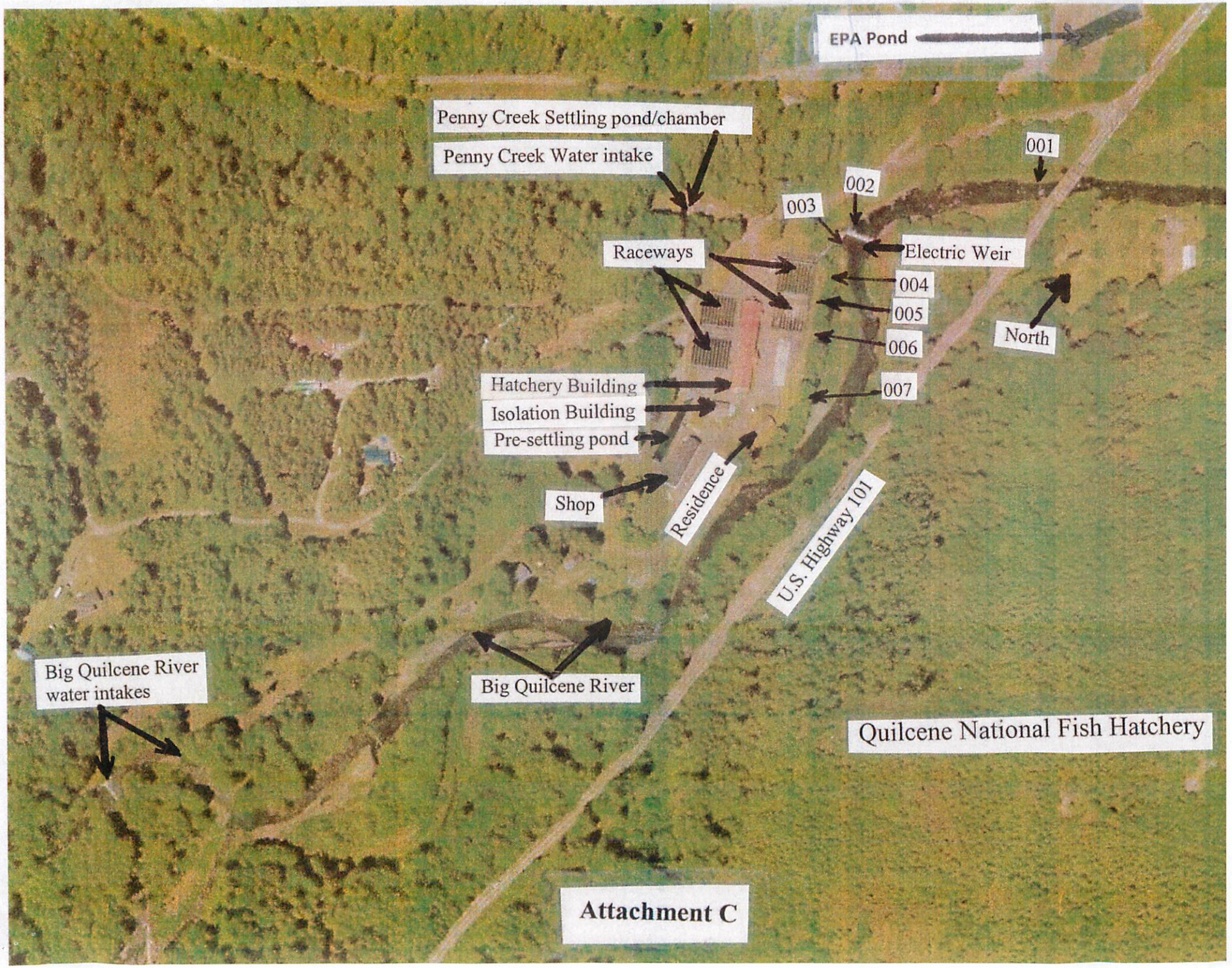
Quilcene National Fish Hatchery

Attachment A2



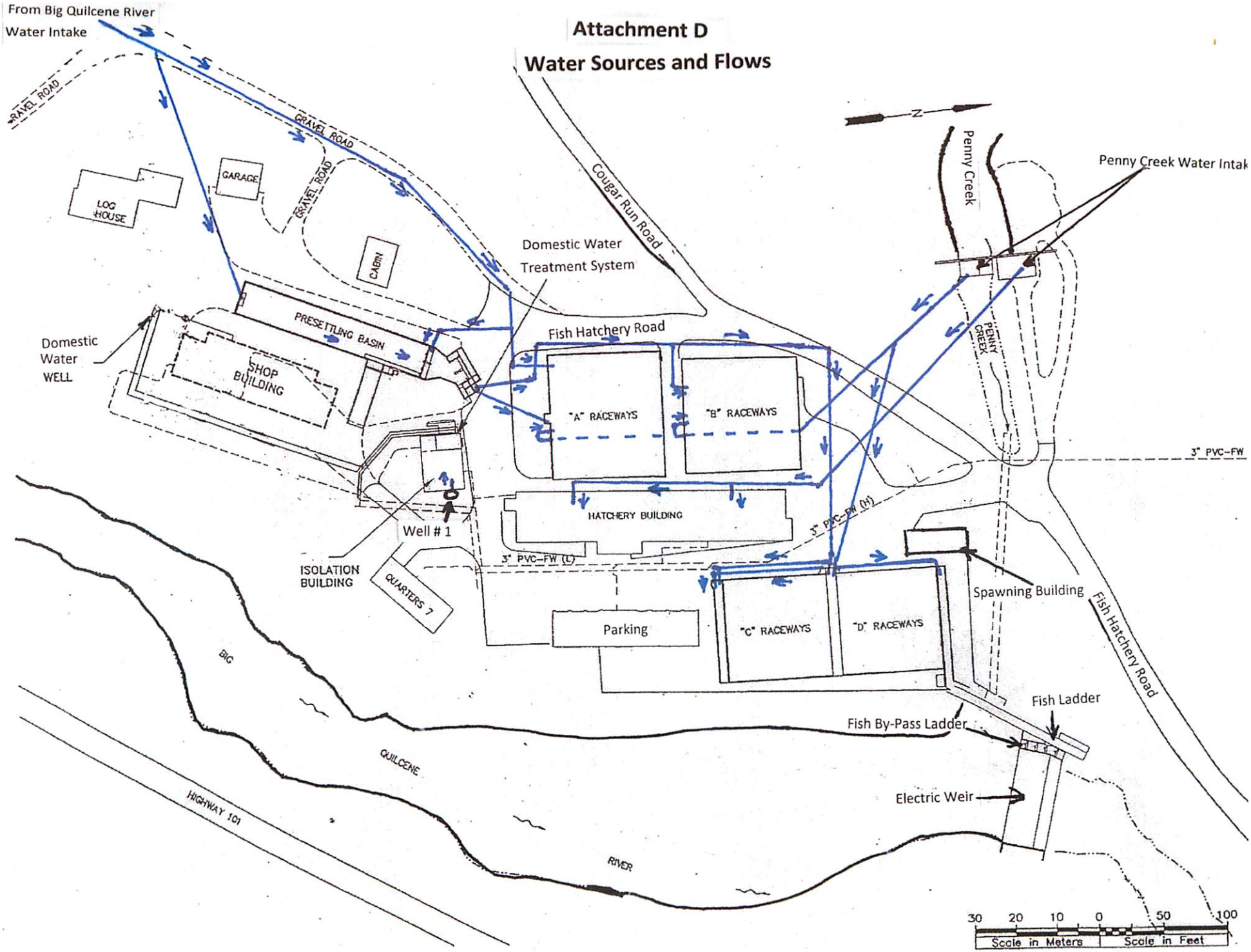
	Attachment "B"
	Receiving Water and Wastewater Discharge Characterization
	Describe the facility process from which water is discharged through each outfall
	Wastewater Discharges (See Attachment "C")
Outfall Number	Description of source, frequency, duration and volume of discharge
001	EPA Pond Outfall – cleaning effluent from the raceways and nursery tanks (Big Quilcene River, Penny Creek) passes through this off-line settling pond. Cleaning is 3 to 5 times per week. Flows are approximately 1,800 g.p.m. for approximately 5 hours.
002	Base of Fish Ladder – Continuous water flow (non-cleaning) from raceways (Big Quilcene, Penny Creek). Annual flows vary with number of raceways in use, from 5,400 g.p.m. to approximately 13,800 g.p.m.
003	Penny Creek Culvert Outfall – Water not diverted for fish propagation overflows at the Penny Creek Intake. At the terminus of the culvert, the water goes 2 ways; under the fish ladder and out into the Big Quilcene River above the electric weir, or down a pipe to an area near the base of the fish ladder to function as adult coho attraction water. "A" and "B" bank combined non-cleaning flows of up to approximately 4 raceways worth of water (2,400 g.p.m.) may be diverted to discharge at a point within the Penny Creek Culvert.
004	Spawning Area/Storm Drain Outfall – Storm water run-off from paved hatchery area and previously, potential spawning waste from spawning operations. A project completed in 2013 allows spawning waste (small amounts of salmon blood, occasional non-fertilized eggs, rarely pieces of skein and fin tissue) to now be diverted to the pollution abatement pond during spawning operations and then also incorporates an oil-water separator for the typical storm water use. Spawning takes place once weekly, usually from the last week of September through the first week of November.
005	"C" Bank Raceways – continuous Penny Creek source water flows of up to 3,600 g.p.m. from approximately mid-December through mid-March.
006	Hatchery Tank Room Outfall – Potential continuous water flows October – December, amount would vary with number of tanks in use. But for many years now, we use only the egg incubation troughs in the fall/winter and 3 tanks for tag retention fish in the summer. Each of these seasonal uses represents approximately 75 gallons per minute, and all of this relatively-small amount of flow is just continually routed to the EPA Pond.
007	Combined Pre-Settling Basin/Hatchery South Tank Room/ Isolation Building Outfall – Year-round water overflows from the Pre-Settling Basin (variable, but estimated overall average of 675 g.p.m.), 50 g.p.m. eyed egg incubation flow from South Tank Room from early November through mid-March, Isolation Building effluent flows of 72 g.p.m. from mid-March through very early September.

In accordance with Section 303(d) of the Clean Water Act, the Big Quilcene River receiving water is listed as impaired for: Instream Flow, Fish and Shellfish Habitat, pH, Bacteria and Temperature.

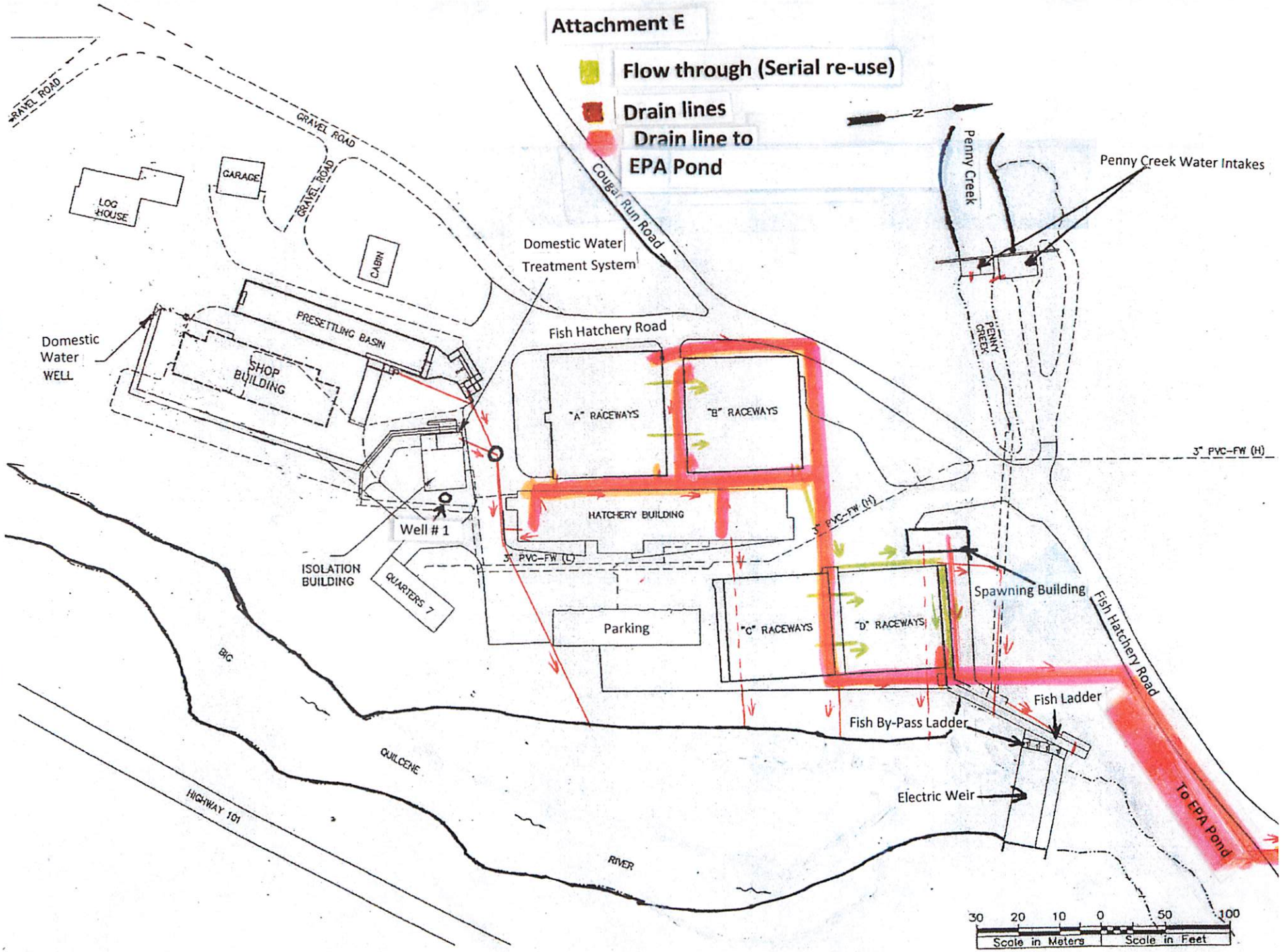

EPA Pond
Penny Creek Settling pond/chamber
Penny Creek Water intake
001
002
003
Raceways
Electric Weir
004
005
006
007
North
Hatchery Building
Isolation Building
Pre-settling pond
Shop
Residence
U.S. Highway 101
Big Quilcene River water intakes
Big Quilcene River
Quilcene National Fish Hatchery
Attachment C

Attachment D

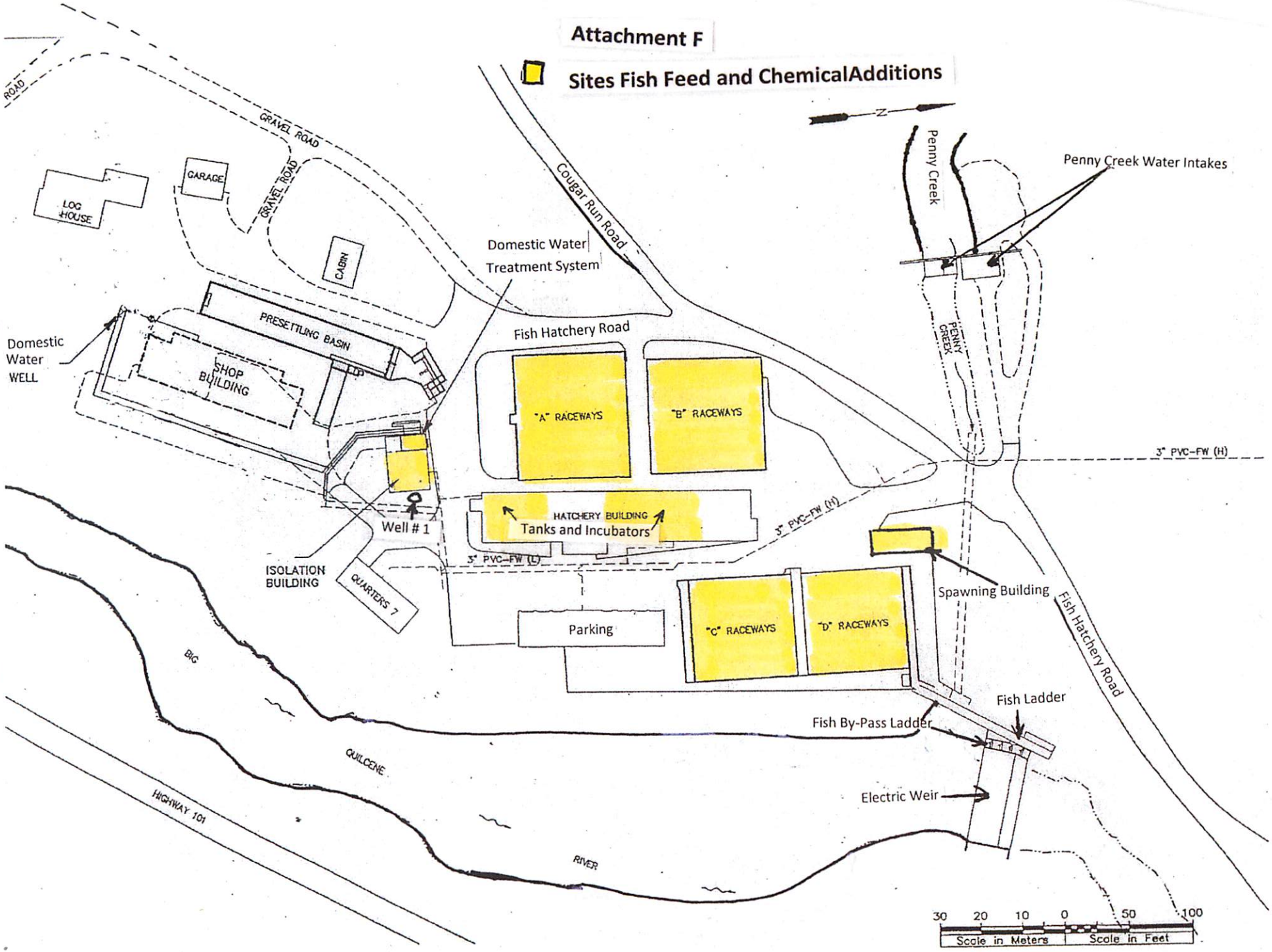
Water Sources and Flows



Quilcene National Fish Hatchery Site Plan



Quilcene National Fish Hatchery Site Plan



Quilcene National Fish Hatchery Site Plan

Attachment G

VII. QUILCENE NFH USE OF AQUACULURE DRUGS AND CHEMICALS

Drug or Chemical	Reason for Use	Method of Application	Maximum Daily Amount Used*	Frequency of Use
Western Chemical 1.75% Iodine	Disinfect Raceway Pond Brooms and Mortality Pickers	Equipment Dip/Soak	4 ounces	346 days
Western Chemical PVP Iodine	Disinfect Surface of/and Water-Harden Freshly-Spawned Salmon Eggs	Timed Immersion of Eggs	216 ounces	8 days
Western Chemical Parasite - S	Control Fungus on Incubating "Green" Salmon Eggs	SubSurface Injection into Each Individual Incubation Trough	448 ounces	34 days
Western Chemical Perox - Aid	Treat for External Bacteria on Adult Salmon Broodstock	Metered Drip into each Individual Adult holding Raceway Unit's Influent	8 gallons	32 days
Orca Pacific Orca - Chlor	Disinfect Isolation Building Effluent	Metered Drip at Uppermost Point of Outgoing Effluent	108 ounces	174 days
Hach Total Reagent Set	Monitor Total Chlorine Level for Hatchery Alarm System	Dispensed in Metered Amounts by Hach CL-17 Unit	38 mLs.	174 days
Hach Free Reagant Set	Monitor Free Chlorine Level for Hatchery Alarm System	Dispensed in Metered Amounts by Hach CL-17 Unit	38 mLs.	174 days
Norweco Bio-Max Dechlorination Tablets	Dechlorinate Isolation Building Effluent Prior to Discharge	Tablets Stacked in a Chemical "Feeder"	65 ounces	174 days
AquaFlor (=florfenicol)	Control of Bacterial Cold Water Disease	Hand-Feeding (=Bucket and Scoop)	no prophylactic treatments	very rarely**

* this is the amount of the 100% raw product, not just the active ingredient. The active ingredients for:

1.75% Iodine = 1.75% from Nonylphenoxypoly(ethyleneoxy) ethanol-iodine complex

PYP Iodine = 10% Povidone - Iodine Complex providing 1.0% minimum titratable iodine

Parasite -S = 37% formaldehyde

Perox - Aid = 35% hydrogen peroxide

OrcaChlor = 12.5% sodium hypochlorite

Bio - Max Tablets = 92% sodium sulfite

Effluent from Main Hatchery Building (containing PVP Iodine used in water-hardening freshly-spawned eggs) and parasite - S are routed to the Pollution Abatement Pond as is Perox - Aid from the pair of adult holding ponds.

In particular, Parasite - S use is highly variable and increases/decreases slowly over the course of the spawning season and subsequent 'traying down' of eyed eggs. Often, it is only a fraction of the amount reported above.

** AquaFlor is administered only on an "as needed" basis and is very rarely prescribed. The last time it was used was from November 11 - 20, 2011 with 277.848 grams being fed over this time frame.